



Friday, January 15, 2021

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: NPDES JANUARY 2021
SDG ID: GCH41650
Sample ID#s: CH41650

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

January 15, 2021

SDG I.D.: GCH41650

Project ID: NPDES JANUARY 2021

Client Id	Lab Id	Matrix
EFFLUENT	CH41650	WASTE WATER



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Analysis Report

January 15, 2021

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G12043

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

01/06/21
01/06/21

Time

7:00
15:16

Laboratory Data

SDG ID: GCH41650
Phoenix ID: CH41650

Project ID: NPDES JANUARY 2021
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.026	0.003	mg/L	1	01/07/21	CPP	E200.7
B.O.D./5 day	5.3	4.0	mg/L	2	01/07/21 15:47	RVM/RM	SM 5210B-11
B.O.D./5 day End Incubation					01/12/21 16:22	RVM/RM	SM 5210B-11
C.O.D.	233	10	mg/L	1	01/07/21	QH	SM 5220D-11
Ammonia as Nitrogen	0.23	0.10	mg/L	2	01/09/21	KDB	E350.1
Nitrite-N	0.058	0.010	mg/L	1	01/06/21 19:26	TB	E353.2
Nitrate-N	4.80	0.10	mg/L	5	01/06/21 19:23	TB	E353.2
Nitrogen Tot Kjeldahl	7.55	0.20	mg/L	2	01/09/21	KDB	E351.1
Total Nitrogen	12.4	0.10	mg/L	1	01/09/21	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	3.48	0.050	mg/L	5	01/07/21	MI	SM4500PE-11
Total Suspended Solids	11	3.3	mg/L	0.7	01/07/21	LS	SM 2540D-11
Total Metals Digestion	Completed				01/06/21	AG/BF	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 15, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

January 15, 2021

QA/QC Data

SDG I.D.: GCH41650

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 558814 (mg/L), QC Sample No: CH41351 (CH41650)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.0025	0.018	0.0175	2.80	98.6	97.8	0.8	103			80 - 120	20
Comment:													
Additional: LCS acceptance range is 80-120% MS acceptance range 75-125%.													



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QA/QC Report

January 15, 2021


QA/QC Data

SDG I.D.: GCH41650

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 558936 (mg/L), QC Sample No: CH41041 (CH41650)													
C.O.D.	BRL	10	10	12	NC	103			104			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 558916 (mg/L), QC Sample No: CH41635 (CH41650)													
Total Suspended Solids	BRL	2.5	46	46	0	91.0						85 - 115	
QA/QC Batch 558950 (mg/L), QC Sample No: CH41640 (CH41650)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	109			113			70 - 130	20
B.O.D./5 day GGA BOD						107						84 - 115	20
QA/QC Batch 558939 (mg/L), QC Sample No: CH41902 (CH41650)													
Phosphorus, as P	BRL	0.01	<0.010	<0.010	NC	100			105			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 558838 (mg/L), QC Sample No: CH41545 (CH41650)													
Nitrate-N	BRL	0.02	0.17	0.16	6.10	103			105			90 - 110	20
Nitrite-N	BRL	0.01	0.196	0.20	2.00	106			102			90 - 110	20
QA/QC Batch 559145 (mg/L), QC Sample No: CH41526 (CH41650)													
Ammonia as Nitrogen	BRL	0.05	0.44	0.47	6.60	97.9			100			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	2.70	2.83	4.70	103			96.0			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
January 15, 2021

Friday, January 15, 2021

Criteria: None
State: MA

Sample Criteria Exceedances Report
GCH41650 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

January 15, 2021

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

